

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 to 47 (Canceled)

48. (New) A hydrogen supply system provided with at least hydrogen supply means for supplying hydrogen to hydrogen storing means and a hydrogen generating device producing hydrogen containing gas to be supplied to the hydrogen supply means, wherein the hydrogen generating device produces the hydrogen containing gas by decomposing a fuel containing an organic compound and comprises a partition membrane, a fuel electrode provided on one surface of the partition membrane, means for supplying a fuel containing the organic compound and water to the fuel electrode, an oxidizing electrode provided on the other surface of the partition membrane, means for supplying an oxidizing agent to the oxidizing electrode, and means for collecting the hydrogen containing gas from the fuel electrode.

49. (New) The hydrogen supply system as described in Claim 48, wherein the hydrogen storing means is a hydrogen storage container loaded on a fuel cell automobile.

50. (New) The hydrogen supply system as described in Claim 48, wherein the hydrogen generating device is an open circuit having neither means for withdrawing electric energy to outside from a hydrogen generating cell constituting the hydrogen

generating device, nor means for providing electric energy from outside to the hydrogen generating cell.

51. (New) The hydrogen supply system as described in Claim 48, wherein the hydrogen generating device has means for withdrawing electric energy to outside with the fuel electrode serving as a negative electrode and the oxidizing electrode as a positive electrode.

52. (New) The hydrogen supply system as described in Claim 48, wherein the hydrogen generating device has means for providing electric energy from outside with the fuel electrode serving as cathode and the oxidizing electrode as anode.

53. (New) The hydrogen supply system as described in Claim 48, wherein two or more of hydrogen generating devices selected from a group consisting of a hydrogen generating device, which is an open circuit having neither means for withdrawing electric energy to outside from a hydrogen generating cell, nor means for providing electric energy from outside to the hydrogen generating cell, a hydrogen generating device having means for withdrawing electric energy to outside with the fuel electrode serving as a negative electrode and the oxidizing electrode as a positive electrode, and a hydrogen generating device having means for providing electric energy from outside with the fuel electrode serving as cathode and the oxidizing electrode as anode are combined in use.

54. (New) The hydrogen supply system as described in Claim 48, wherein voltage between the fuel electrode and the oxidizing electrode is 200 to 1000 mV in the hydrogen generating device.

55. (New) The hydrogen supply system as described in Claim 50, wherein voltage between the fuel electrode and the oxidizing electrode is 300 to 800 mV in the hydrogen generating device.

56. (New) The hydrogen supply system as described in Claim 51, wherein voltage between the fuel electrode and the oxidizing electrode is 200 to 600 mV in the hydrogen generating device.

57. (New) The hydrogen supply system as described in Claim 51, wherein voltage between the fuel electrode and the oxidizing electrode and/or the evolution volume of hydrogen-containing gas are/is adjusted by varying the volume of electric energy withdrawn from the hydrogen generating device.

58. (New) The hydrogen supply system as described in Claim 52, wherein voltage between the fuel electrode and the oxidizing electrode is 300 to 1000 mV in the hydrogen generating device.

59. (New) The hydrogen supply system as described in Claim 52, wherein voltage between the fuel electrode and the oxidizing electrode and/or the evolution volume of hydrogen-containing gas are/is adjusted by varying the volume of electric energy provided in the hydrogen generating device.

60. (New) The hydrogen supply system as described in Claim 48 wherein the evolution volume of hydrogen-containing gas is

adjusted by varying voltage between the fuel electrode and the oxidizing electrode in the hydrogen generating device.

61. (New) The hydrogen supply system as described in Claim 48, wherein voltage between the fuel electrode and the oxidizing electrode and/or the evolution volume of hydrogen-containing gas are/is adjusted by varying the supply volume of the oxidizing agent in the hydrogen generating device.

62. (New) The hydrogen supply system as described in Claim 48, wherein voltage between the fuel electrode and the oxidizing electrode and/or the evolution volume of hydrogen-containing gas are/is adjusted by varying the concentration of the oxidizing agent in the hydrogen generating device.

63. (New) The hydrogen supply system as described in Claim 48, wherein voltage between the fuel electrode and the oxidizing electrode and/or the evolution volume of hydrogen-containing gas are/is adjusted by varying the supply volume of fuel containing an organic compound and water in the hydrogen generating device.

64. (New) The hydrogen supply system as described in Claim 48, wherein voltage between the fuel electrode and the oxidizing electrode and/or the evolution volume of hydrogen-containing gas are/is adjusted by varying the concentration of fuel containing an organic compound and water in the hydrogen generating device.

65. (New) The hydrogen supply system as described in Claim 48, wherein the operation temperature of the hydrogen generating device is not higher than 100°C.

66. (New) The hydrogen supply system as described in Claim 65, wherein the operation temperature is between 30 and 90°C.

67. (New) The hydrogen supply system as described in Claim 48, wherein the organic compound supplied to the fuel electrode of the hydrogen generating device is one or two or more organic compounds selected from a group consisting of alcohol, aldehyde, carboxyl acid and ether.

68. (New) The hydrogen supply system as described in Claim 67, wherein the alcohol is methanol.

69. (New) The hydrogen supply system as described in Claim 48, wherein the oxidizing agent supplied to the oxidizing electrode of the hydrogen generating device is an oxygen-containing gas or oxygen.

70. (New) The hydrogen supply system as described in Claim 69, wherein the oxidizing agent supplied to the oxidizing electrode of the hydrogen generating device is an exhaust air exhausted from the hydrogen generating device.

71. (New) The hydrogen supply system as described in Claim 48, wherein the oxidizing agent supplied to the oxidizing electrode of the hydrogen generating device is a liquid containing hydrogen peroxide solution.

72. (New) The hydrogen supply system as described in Claim 48, wherein the partition membrane of the hydrogen generating device is a proton conducting solid electrolyte membrane.

73. (New) The hydrogen supply system as described in Claim 72, wherein the proton conducting solid electrolyte membrane is a perfluorocarbon sulfonate-based solid electrolyte membrane.

74. (New) The hydrogen supply system as described in Claim 48, wherein a catalyst of the fuel electrode of the hydrogen generating device is made of platinum-ruthenium alloy supported by carbon powder serving as a base.

75. (New) The hydrogen supply system as described in Claim 48, wherein a catalyst of the oxidizing electrode of the hydrogen generating device is made of platinum supported by carbon powder serving as a base.

76. (New) The hydrogen supply system as described in Claim 48, wherein means for circulating fuel containing an organic compound and water is provided at the hydrogen generating device.

77. (New) The hydrogen supply system as described in Claim 48, wherein a carbon dioxide absorbing portion for absorbing carbon dioxide contained in the generated hydrogen-containing gas is provided at the hydrogen generating device.

78. (New) The hydrogen supply system as described in Claim 48, wherein a hydrogen permeable film is provided at the outlet of the hydrogen-containing gas of the hydrogen generating device.

79. (New) The hydrogen supply system as described in Claim 48, wherein an insulating material for insulating a heat generated by the hydrogen generating device is not provided.